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## Document Number 5

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File:DERWENT

July 27, 1999

DERWENT-ACC-NO: 1989-330087

DERWENT-WEEK: 198945

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## TITLE:

Base film for high density recording medium - comprises two layers of  
aromatic polyamide or aromatic polyimide film of specified surface roughness

PATENT-ASSIGNEE: TORAY IND INC[TORA]

PRIORITY-DATA: 1988JP-0077346 (March 29, 1988)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 01247162 A	October 3, 1989	N/A	008	N/A
JP 93064594 B	September 14, 1993	N/A	009	B32B 027/34

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP01247162A	N/A	1988JP-0077346	March 29, 1988
JP93064594B	N/A	1988JP-0077346	March 29, 1988
JP93064594B	Based on	JP 1247162	N/A

IPC: B29C055/02; B29K077/00 ; B29K077:00 ; B29K079/00 ; B29K079:00 ;  
 B29L009/00 ; B29L009:00 ; B32B027/34 ; G11B005/70 ; G11B005/704

ABSTRACTED-PUB-NO:JP01247162A

BASIC-ABSTRACT:Base film comprises at least two layers of aromatic polyamide films or aromatic polyimide films comprising (A) a layer having RpA (surface depth on the central line) of 10-200 Angstroms for coating it with a magnetic layer and (B) a layer having RpB (surface depth on the central line) of (RpA + 50) - 15000 Angstroms and RaB (average roughness) of 20-200 Angstroms and protrusions having a height above 50 Angstroms of at least 30 protrusions/mm. for running in contact with the guide rollers. Pref. Ra and Rp are measured in accordance with the method of Jiro Nara (Measurements and Evaluations of Surface Roughness, Sogo Gijutsu Centre, 1983). The aromatic polyamide contains at least 50 mol.% repeating unit of  $-(\text{HN}-\text{Ar1}-\text{NHOC}-\text{Ar2}-\text{CO})-$  in which Ar1 and Ar2 are each independently a gp. contg. at least one opt. substituted aromatic ring. The aromatic polyimide contains at least 50 mol.% repeating unit (I) or (II), when Ar3 is derived from aromatic tetracarboxylic acid or its anhydride. Ar5 is derived from tricarboxylic anhydride or its acid anhydride. Ar4 and Ar6 are each derived from aromatic diamine or diisocyanate. Pref. (B) contains particles (e.g., SiO<sub>2</sub>, TiO<sub>2</sub>, ZnO, Al<sub>2</sub>O<sub>3</sub>, CaSO<sub>4</sub>, BaSO<sub>4</sub>, CaCO<sub>3</sub>, carbon black, zeolite, etc.) having particle size of 0.02-2 micron in an amount of 0.1-10 wt.% of the polymer for providing the rough surface. USE/ADVANTAGE - The base film has

well balanced surface properties of the top surface suitable for vacuum depositing the magnetic layers and running performance of the rear surface. Usable for a high density recording medium.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS:

BASE FILM HIGH DENSITY RECORD MEDIUM COMPRISE TWO LAYER AROMATIC POLYAMIDE  
AROMATIC POLYIMIDE FILM SPECIFIED SURFACE ROUGH

DERWENT-CLASS: A26 A85 L03 P73 T03

CPI-CODES: A05-F05; A05-J01B; A12-E08A; A12-S06C1; L03-B05L1; L03-B05L3;

EPI-CODES: T03-A01B1;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1278U;1520U ;1544U ;1694U ;1739U ;1767U  
;1966U ;5085U ;5405U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0016 0020 0037 0038 0205 0206 0060 0066 0069 0072 0183 0231  
1283 1285 1456 1485 1487 1717 1762 1764 1766 1772 2217 2218 2498 2499 2513  
2661 2719 2726 2742 2818

Multipunch Codes: 014 04- 06- 07& 075 08- 09& 10- 106 141 15- 151 155 16&  
163 168 18- 19- 20- 206 209 210 211 212 229 27- 307 308 310 333 435 443 471  
472 477 546 575 597 602 623 627 668 669 684 694 721 724 725

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-146436

Non-CPI Secondary Accession Numbers: N1989-251133

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